# MULTIMEDIA UNIVERSITY

# FINAL EXAMINATION

**TRIMESTER 1, 2015/2016**

## MME7113– Principles of Multimedia in Education Technology

(All sections / Groups)

28 SEPTEMBER 2015
10.00 a.m. – 12.00 p.m.
(2 Hours)

## INSTRUCTIONS TO STUDENTS

1. This Question paper consists of 3 pages (including this cover page).

2. Answer ALL FOUR (4) questions.

3. All questions carry equal marks and the distribution of the marks for each question is given.

4. Write your all answers in the Answer Booklet provided.

## Section A

## Question 1

According to Association for Educational Communications and Technology, educational technology is the study and ethical practice of facilitating learning and improving performance by creating, using, and managing appropriate technological processes and resources. Discuss current issues faced by teacher, researcher and/or technologist in educational technology domain. Provide examples for each statement that you make.

(25 marks)

## Section B

## Question 2

If you are developing an online course or mobile apps content, you may need to reconsider how you will get students to engage with the material without the traditional face-to-face interaction. Richard E. Mayer discusses principles that shape the design and organization of multimedia presentations. **Briefly** describe all the principles of multimedia.

| Principles of Multimedia | Explanation |
|---|---|
| 1. Multimedia principle | |
| 2. Segmenting principle | |
| 3. Modality principle | |
| 4. Redundancy principle | |
| 5. Coherence principle | |
| 6. Personalization principle | |
| 7. Image Principle | |
| 8. Signaling Principle | |
| 9. Temporal Contiguity Principle | |
| 10. Spatial Contiguity Principle | |

Table 1.

(25 marks)

## Question 3

Describe how Mayer's principles of multimedia learning in **Question 2** play important roles in online learning content such as mobile apps. Provide examples to support your description. You are encouraged to illustrate in supporting your description.

(25 marks)

## Question 4

a) Educational technology is a wide field. Therefore, one can find many definitions, some of which are conflicting. Based on the definitions of educational technology below, describe your own definition of educational technology.

- *Technology is more than hardware. Technology consists of the designs and the environments that engage learners*

- *Educational technology refers to the art or craft of responding to our educational needs. Technology is not just machines. It is a "planned, systematic method of working to achieve planned outcomes-a process not a product*

- *Educational technology refers to how people use their inventions and discoveries to satisfy their educational needs and desires.*

- *Educational technology is "a complex, integrated process involving people, procedures, ideas, devices and organization for analyzing problems and devising, implementing, evaluating and managing solution to those problems, involved in all aspects of human learning*

- *Educational Technology is a field study which is concerned with the practice of using educational methods and resources for the ultimate goal of facilitating the learning process*

b) Technology in education plays an important role in improving the educational skills and knowledge of the people. This is very important especially those who need improve their knowledge in order for them to achieve a successful life in the future. **Describe advantages and disadvantages of technology in education.**

(25 marks)
**End of Paper**